



#5

THERMOSTATIC CONTROLLER AND CIRCUIT TESTER

TECHNICAL SPECIFICATIONS

R1

220 k \pm 5% , 0.5 watt Bias Resistor for the 240Vac Neon lamp

R2

32k \pm 5%, 0,5 watt Bias Resistor for the 120Vac Neon lamp

NEON LAMPS

Both lamps are designed to perform within a minimum and maximum range of 120 -240Vac regulated by bias resistors giving a \pm 10% accuracy.

BUZZER

1.5Vdc - 3Vdc working voltage. Buzzer emits audible sound when continuity is made. Will perform on half working voltage of 1.5Vdc when battery power is low.

BATTERIES

2 alkaline AA batteries of 1.5Vdc each, provides power to buzzer and flashlight.

LIGHT BULB

1.5Vdc - 3Vdc prefocussed light bulb, threaded type.

BULB HOLDER

Threaded type.

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SWITCH 1

A momentary switch to operate flashlight at 3Vdc maximum. This is a robust switch designed to withstand 120Vac. This switch is an integral part of the test circuit.

SWITCH 2

A DPDT slide switch. This is basically a test mode selector within the test circuit. this switch can withstand 240Vac .

FUSE

Provides protection for the dc circuit and its components. This is a quick blow type designed to trip circuit if ac voltage is applied to test circuit in error. Rating of 350mA. A lower rating fuse value is recommended subject to size and availability.

CONTROLLER SWITCHES 1 - 4

These are push on push off type with a tolerance of 240Vac maximum. All interlinked with 14 AWG single strand copper wire.

TEST LEADS

Banana plug type, with a tolerance of 600vac maximum.

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TEST LEAD JACKS

Insulated banana type with 600Vac tolerance.

PROJECT CASING

Molded plastic enclosure type designed with AA size battery compartment and pre-molded screw holes. Dimensions L 5 5/8 x W 3 1/4 x H 1 1/2 inches.

ALLIGATOR CLIPS

Should be medium size (1 3/4 inch) covered with plastic boots.

WIRES

24 AWG stranded copper type.

SLEEVING

Half inch flexible polyolefin and shrinkable tubing, encapsulates controller test leads. Shrink ratio 2:1.

PC BOARD

Copper based general purpose type, cut to fit size 3 x 3/4 inch .

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APPLICATION	MODE	SW1 RED POWER	SW2 GREEN FAN	SW3 YELLOW COOL COMP.	SW4 WHITE HTR SOL	DESCRIPTION
HEAT PUMP	COOL	*	*	*	*	Solenoid switches reversing valve to cooling mode
HEAT PUMP	HEAT	*	*	*		Solenoid inactive. Reversing valve preset for heating
SPLIT SYSTEM	COOL	*	*	*		
SPLIT SYSTEM	HEAT	*	*		*	